

2G4WD-00D-V1

12 Port Antenna / 2L4H / 2.0m

PROSE

- 2×(698-960) + 4×(1695-2690) MHz
- Integrated RET (AISG 2.0 Compliant), Field Exchangeable
- 7/16 Connectors, each pair port separate scale

Electrical Data (BASTA 11.1)

Frequency(MHz)		2×(698-960)			4×(1695-2690)			
		698-806	824-894	880-960	1695-1880	1920-2200	2300-2400	2490-2690
Gain	R1/R2	Mid Tilt	14.8	15.1	14.9			
		Over All Tilts	14.8±0.5	15.0±0.5	14.9±0.5			
	Y1/Y2/Y3	Mid Tilt				17.1	17.8	18.3
	Y4	Over All Tilts				17.1±0.7	17.7±0.7	18.3±0.5
Polarization		°	±45					

Horizontal Pattern

3dB Azimuth Beamwidth	°	64±4	63±3	61±3	69±3	66±3	61±3	59±3
Front to Back Ratio, Co-polar, 180°±30°	dB	> 23	> 25	> 25	> 27	> 28	> 28	> 28
Cross-Polar Discrimination								
At Mechanical Boresight 0°		> 18	> 18	> 18	> 19	> 21	> 22	> 20
Over Sector ±60°		> 10	> 8	> 8	> 8	> 6	> 4	> 4

Vertical Pattern

3dB Elevation Beamwidth	°	10.7±1.0	9.7±0.6	8.7±0.6	6.5±0.5	5.6±0.5	4.9±0.4	4.7±0.4
Electrical Downtilt		2-12			2-12			
1st Upper Sidelobe Suppression	dB	> 16			> 17			

RF Parameters

VSWR		< 1.5	
Intra - Cluster Isolation	dB	> 25	> 25
Inter - Cluster Isolation		> 25	> 25
3rd PIM(2 x 43 dBm)	dBc	< -150	
Efficiency		≥ 70%	≥ 70%
Impedance	Ω	50	
Maximum Effective Power per Port	W	500	300

— Maximum Effective Power Whole Antenna: 1000 W.

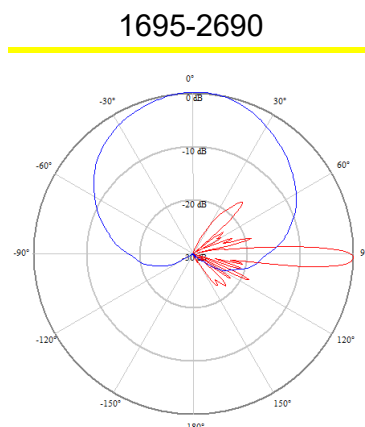
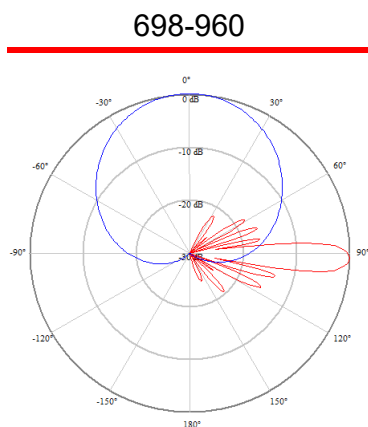
Mechanical Data (BASTA 11.1)

Connector Type	12 x 7/16DIN Female	
Connector Position	Bottom	
Lightning Protection	DC Ground	
Reflector Material	Aluminum Alloy	
Radiator Material	Low Loss Circuit Board	
Radome Material	Fiberglass(UV resistance)	
Radome Color	Light Grey	
Antenna Net Weight	< 30.8 kg	67.9 lb
Shipping Weight	40.3 kg	88.8 lb
Antenna Dimensions (H x W x D)	1999 x 498 x 197 mm	78.7 x 19.6 x 7.8 in
Packing Size (H x W x D)	2230 x 610 x 315 mm	87.8 x 24.0 x 12.4 in
Survival Wind Speed	241 km/h	150 mph
Wind Load @150 km/h (Frontal / Lateral / Rear)	793 / 294 / 936 N	178 / 66 / 210 lbf
Mast Diameter Supported	50 - 110 mm	2.0 - 4.3 in
Relative Humidity	5% - 95%	
Operating & Storage Temperature Range	-40 ~ +70 °C	-40 ~ +158 °F



RET Specification (BASTA 11.1)

Compatible Standards	AISG2.0/ 3GPP
Power Consumption	≤2W(stand by); ≤13W(operating)
Configuration Management	Integrated RET, pre-configured
Lifespan by number of adjustments	≥ 10,000
Daisy chain connection solution	support daisy-chaining/cascade
Voltage	10-30VDC
Hardware interface	RS 485A/B(pin 5, pin 3) follow IEC 60130-9
Connector	2x8 pin follow IEC 60130-9 Daisy chain in: Male; Daisy chain out: Female
Salt spray test	500 Hours

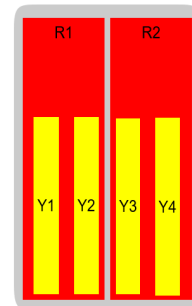
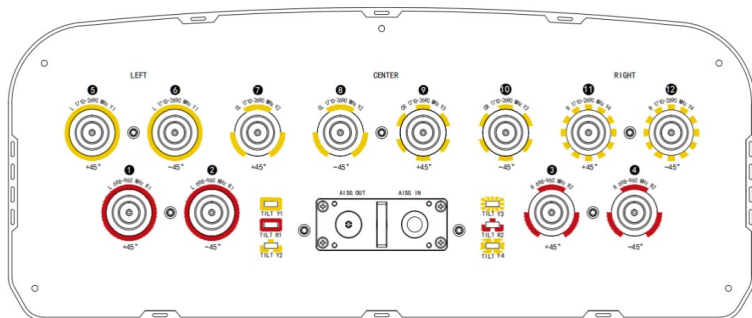
Pattern (Sample for reference)

2G4WD-00D-V1

12 Port Antenna / 2L4H / 2.0m

PROSE

Layout



Array	Connector	Frequency (MHz)	Sub Unit #	RET Type	RET Serial*
●R1	1 - 2	698-960	3	MRET	RB.....XYYxxxxx-MM
●R2	3 - 4	698-960	4	MRET	RB.....XYYxxxxx-MM
●Y1	5 - 6	1695-2690	2	MRET	RB.....XYYxxxxx-MM
●Y2	7 - 8	1695-2690	1	MRET	RB.....XYYxxxxx-MM
●Y3	9 - 10	1695-2690	6	MRET	RB.....XYYxxxxx-MM
●Y4	11 - 12	1695-2690	5	MRET	RB.....XYYxxxxx-MM

*Remark: X – Year, YY – Week , xxxxx – Serial Number

Accessories

Item	Model	Weight	Mechanical Tilt Range (°)
Mounting Kit	85L-1	4.1 kg / 9.0 lb	0-10

Compliance

- Our quality assurance system and our environmental management system apply to the entire company and are certified according to EN ISO 9001, EN ISO 14001 and OHSAS 18001
- Our products are compliant to the EU Directive RoHS 2 as well as to other environmentally relevant regulations (e.g. REACH)



While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.